

NX Designer Certification

The Value to NX Users and Managers

Siemens PLM Connection
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Topics

- Certification – A Growing Trend
- Why Certify?
- Siemens PLM Software Certified Professional Program
- Value of Obtaining Professional Certification
- NX Designer Certification



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Certification – A Growing Trend

“More and more organizations are requiring certification to ensure that the people they hire are truly qualified to do the jobs they are intended to do.” (2)

“Both external and internal certifications force organizations to be more disciplined in confirming that their people have or can get the knowledge and skills required to do their jobs safely, efficiently, and effectively.” (2)

Definition of Certification: to attest as being true or as represented or as meeting a standard ⁽¹⁾

(1) Source: Merriam-Webster Online

(2) Hale, Judith (2000). Performance based certification. San Francisco, CA: Josey-Bass Pfeiffer.

Why Certify? Certification Objectives



Certification can only be successful if you can identify a problem you are trying to solve. The items listed below are examples of problems that can be solved in part or in total by a certification:

What problems do you recognize?

- Loss of revenue/profits due to poor job performance.
- Inconsistent work product results.
- Too much time for new users to achieve high, consistent results.
- Inability to validate employees gained the skills and knowledge for which they are trained.

Why Certify?

Financial Results of Certification



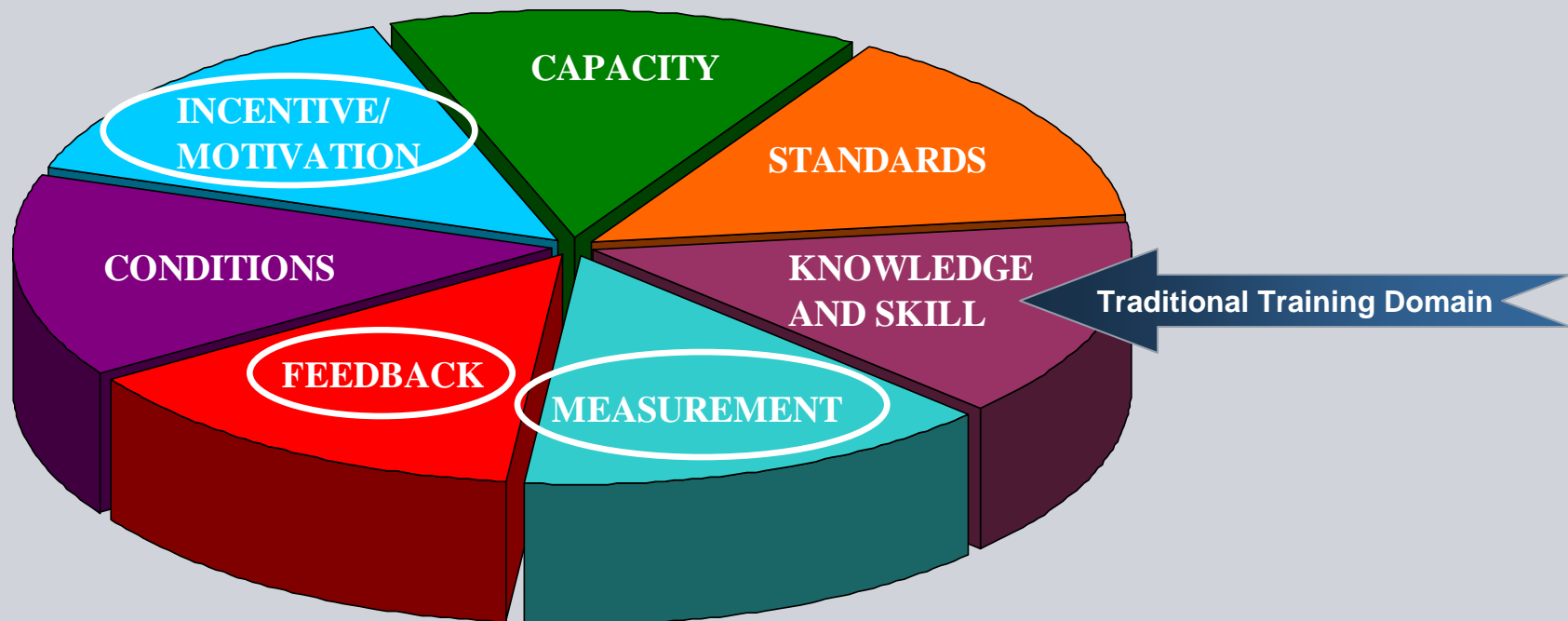
Certification should also have a positive impact on a company's bottom line and therefore management may ask for the financial benefits. This is sometimes difficult to document.

Be prepared to measure the improvements.

- Anecdotal evidence of improved job performance.
- Productivity gains as a result of implementing a certification program.
- Successful results from other companies that have implemented certification programs.

Why Certify? Individual Job Performance Factors

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❖ Positive impact from a well executed certification program.



LANGEVIN
LEARNING SERVICES
(US) Inc.

The World's Largest Train-The -Trainer Company

Siemens PLM Software Certified Professional Program



- **Global – Certified individuals in 12 countries**
- **Three Levels:**
 - **Certified Professional**
 - **Advanced Certified Professional**
 - **Master Certified Professional**
- **Common tests used for customers, employees, and partners.**
- **Based on Corporate level standards and guidelines consistent with recognized industry professional certification programs**
- **Objective Testing**
- **Flexible preparation, no mandatory training**
- **Free Assessments to determine readiness for Certification**
- **Scalable infra-structure with online testing tools**



Value of Obtaining Professional Certification NX Designer Certification



- Certified professionals are **more proficient** and help increase productivity
- Encourage the application of **NX best practices**
- **Increase productivity** through proper assignment of technical resources
- Provide a means to assess skills & identify any training requirements
- **Save time and money** on internal training by identify actual need
- Career advancement opportunities with recognition of validated skills
- Formally documents your NX qualifications
- Useful for matching your skills to your job responsibilities
- Aid employers in **screening potential employees** and contract labor
- Quantify the effectiveness of training investment
- Part of an employee's Personal Development Program
- Enable successful **transition from I-deas to NX**

Value of Obtaining Professional Certification Customer Testimonials



“The NX Certification process quickly provides me, as the customer, hard data confirming the experience, training and ability of the designer to perform the tasks required to produce a properly modeled 3-D UG design.”

Paul Dom
GE Transportation - Aircraft Engines

“I am extremely satisfied with the thoroughness and effectiveness of the (NX) Designer Certification program. I and my team of 12 designers have all taken the certification, and proudly display the certification logo on our business cards. I compiled the results from all of my employees and was able to identify development plans individually and for the group as a whole. ”

Mark Halbish
TI Automotive

NX Designer Certification

Knowledge and Skill Examination

Skill-Based Testing

Knowledge-Based Testing

Sections 1 & 2 of Certification Test:

- Hands On Skill Based Test
- Proctored environment
- Leverages online format
- Tests students ability to apply NX
- Allows a variety of correct paths to correct solution when appropriate

Section 3 of Certification Test:

- Q & A Knowledge Based Test
- Proctored environment
- Uses multiple question types
- Leverages online format
- Test users' knowledge of NX features and best practices

NX Designer Certification

The NX Designer Certification is performance/skill and knowledge based

- **Timed part modeling and editing**
- **Model parts from scratch**
- **Include Design Intent**
- **Perform design changes**
- **Based on NX best practices**
- **Answer questions about key NX functions and applications**

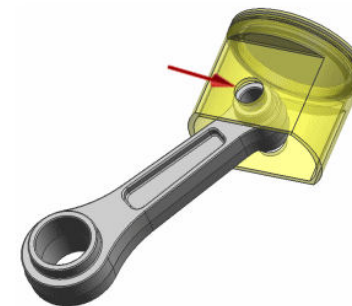
WAVE Geometry Linker

Note:

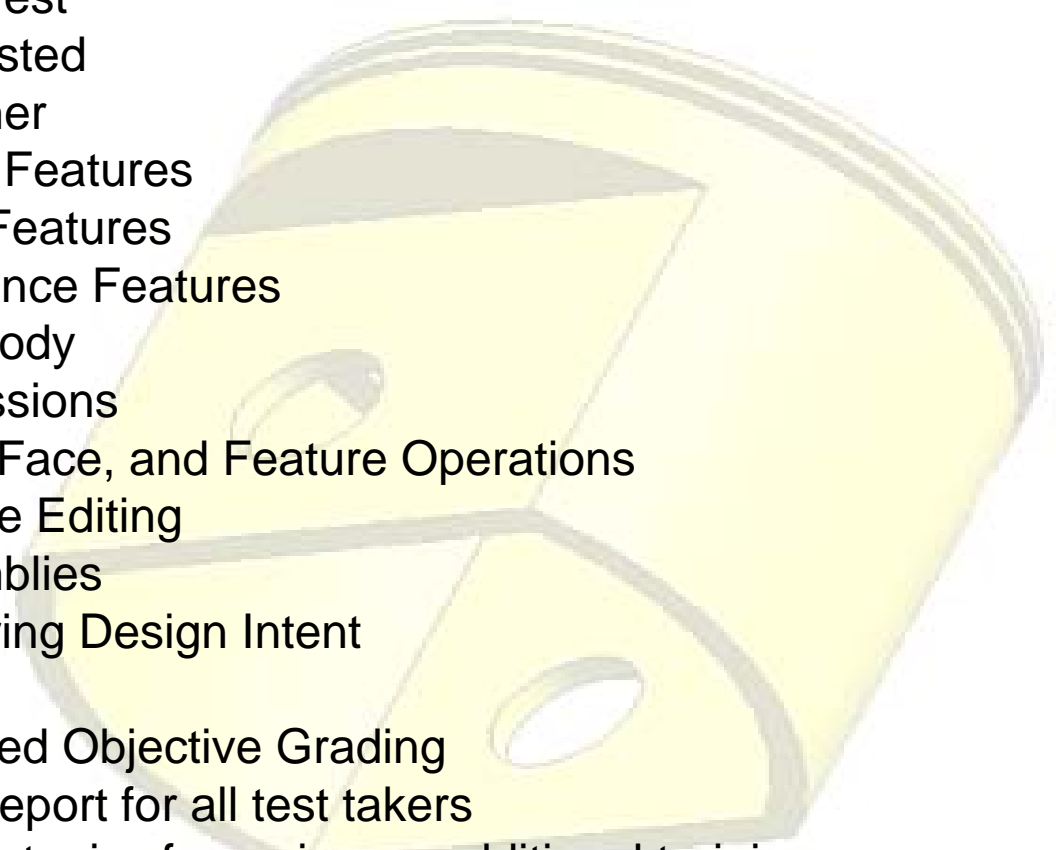
Do not delete or rename any of the existing objects, features, or expressions in this part file, unless instructed otherwise, doing so may negatively impact the grading of your evaluation.

Task Overview:

In this task you are to use the WAVE Geometry Linker functionality to create a hole in a piston component for a piston pin that is based on a hole size in a connecting rod component. The hole in the piston is to be associative so that if the hole in the connecting rod changes the hole in the piston will update automatically.



NX Designer Certification Specifics

- 
- 4 Hour Test
 - Areas tested
 - Sketcher
 - Swept Features
 - Form Features
 - Reference Features
 - Trim Body
 - Expressions
 - Edge, Face, and Feature Operations
 - Feature Editing
 - Assemblies
 - Capturing Design Intent
 - Automated Objective Grading
 - Grade Report for all test takers
 - Identifies topics for review or additional training

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NX Designer Certification Specifics

- Registration through local Education Services
- Grade Results (All)
- Certificate (Certified)
- License to use Title (Certified)

► Certified Professional NX Designer



SIEMENS Product Life Cycle Management Software
www.plm.automation.siemens.com/en_us

**SIEMENS PLM Software
Designer Certification**

Results Sheet
Version:
NX 5.0.0.25

Results: Certification Achieved

John Q Testtaker
Gadgets Are Us Inc.
235 North Main
Plano, TX 75024
United States

Certification Number: dct591467
Test Date: 2/12/2008

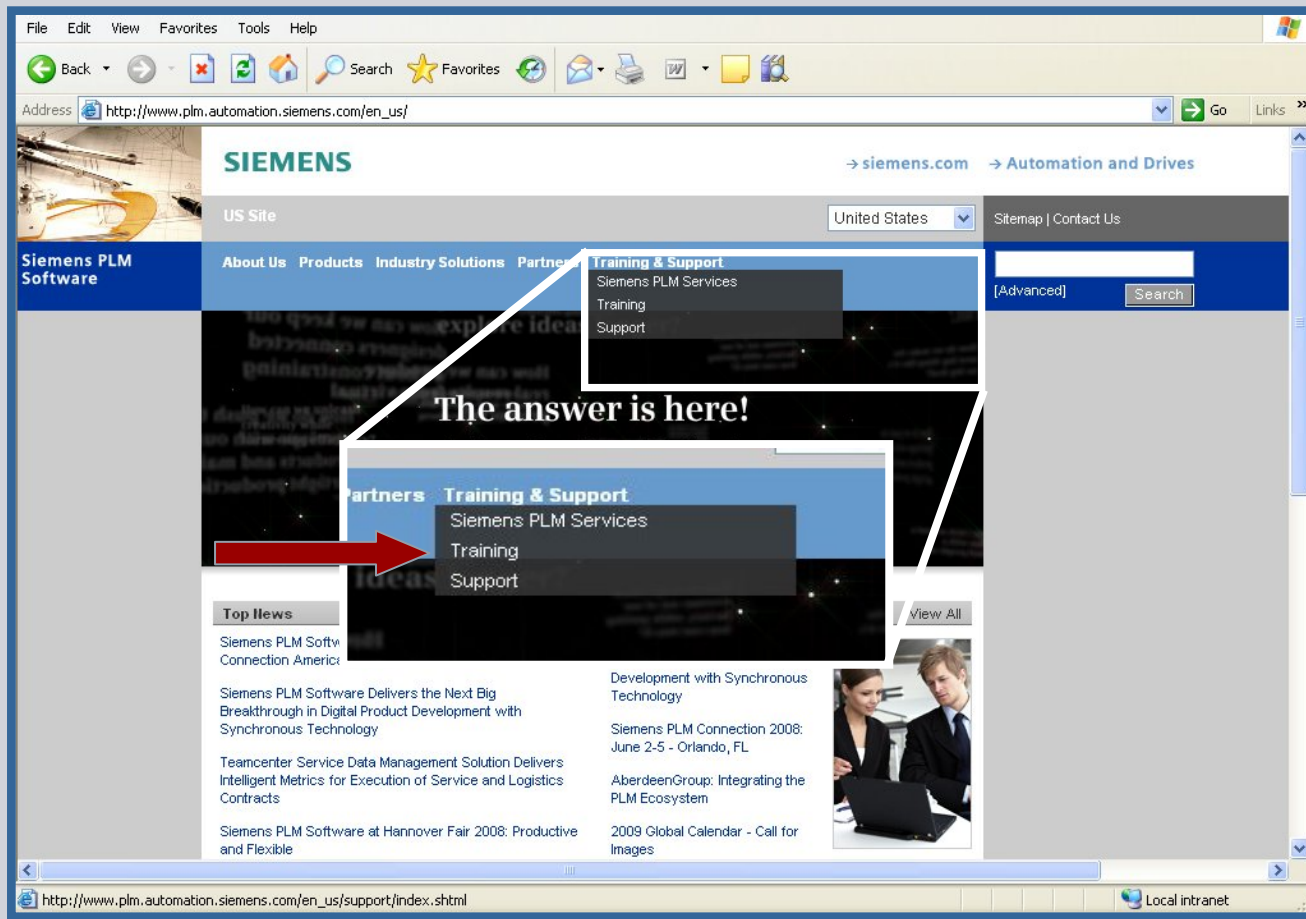
Congratulations! You have achieved NX5 Designer Certification.

Filled boxes indicate where your knowledge and skills could be improved by reviewing the noted courses.

- ☒ **User Interface, View Operations, and Layer Control**
Please review the NX Basics Learning Advantage course.
- ☐ **Swept Features, Form Features, and Feature Editing**
Please review the Feature Modeling Learning Advantage course.
- ☐ **Reference Features, Trim/Split Body and Expressions**
Please review the Feature Modeling and Expressions Learning Advantage course.
- ☒ **Edge, Face, and Feature Operations**
Please review the Feature Modeling and Expressions Learning Advantage course.
- ☐ **Sketcher**
Please review the Sketcher Learning Advantage course.
- ☐ **Assemblies**
Please review the Assemblies Learning Advantage course.
- ☐ **Design Intent**
This score suggests a need to focus on the implementation of associative expressions between features.
- ☐ Your composite test results would be enhanced by attending Essentials for NX Designers.
- ☐ Your composite test results would be enhanced by attending Intermediate NX Design and Assemblies.

Date Issued: 4/7/2008
SIEMENS, 5800 Granite Parkway, Suite 600, Plano, TX 75024

Where to Get More Information



Direct URL: <http://training.ugs.com/certification/index.shtml>

Thank You!

Enjoy the conference.